

ABSTRACT

The present specification discloses an electrochemical device for moving particles covered with a protein, comprising at least n ($n \geq 2$) pieces of electrodes contacting with a liquid containing particles covered with a protein and a circuit for generating a potential difference in a range such that it does not cause the electrolysis of the liquid between the electrodes, wherein the particles are moved by electrophoresis in the direction of the arrangement of the electrodes. Since particles covered with a protein can be moved by using a simple method, the present invention is applicable to a microorganism concentration condensing device capable of condensing the concentration of the microorganism contained in a test liquid containing the microorganism and to a bacteria removing device, also applicable to a blood component induction device and a blood component induction method capable of physically separating a blood component from a blood sample and/or capable of physically removing a microorganism from the blood sample, and further applicable to an electric appliance capable of decreasing the concentration of the microorganism present on the surface of a heat exchanger.